

ANNUAL REPORT FOR 2015



Northwest Fork Alligator River Mitigation Site
Tyrrell County
TIP No. B-4647
COE Action ID: SAW-2005-11639
CAMA Permit #: 98-11
NCDWR Project#: 20110427



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North Carolina Department of Transportation
June 2015

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SUMMARY

The Northwest Fork Alligator River Mitigation Site is located on NC 94 in Tyrrell County near Gum Neck. The site was planted in January 2015 and was designed as mitigation for wetland impacts associated with TIP B-4647 Bridge No. 6 over the Northwest Fork Alligator River.

NCDOT will perform on-site mitigation for wetland impacts of 0.49 acre associated with Transportation Improvement Program (TIP) B-4647. Restoration of 0.52 acres of riverine wetland restoration was completed via the removal of existing pavement and causeway associated with the bridge replacement and the NC 94 realignment. NCDOT shall monitor the site for a minimum of three years or until the site is deemed successful.

The initial planting of this site took place in the winter of 2014. A portion of the site was mowed during the summer of 2014 by contract mowers not aware of the mitigation site. NCDOT replanted the site and installed mitigation signs denoting the mitigation site in January 2015. After the first year of monitoring by visual observation, the Northwest Fork Alligator River Mitigation Site shows that the planted species are surviving and the restoration area is re-attaining wetland jurisdictional status.

NCDOT proposes to continue vegetation monitoring at the Northwest Fork Alligator River Mitigation Site in 2016.

1.0 INTRODUCTION

1.1 Project Description

The Northwest Fork Alligator River Mitigation Site is located at Bridge No. 6 over the Northwest Fork Alligator River (Figure 1). The site consists of approximately 0.52 acres of riverine wetland restoration for wetland impacts associated with bridge project B-4647.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet vegetation success criteria. This report details the vegetation monitoring in 2015 at the Northwest Fork Alligator River Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

Winter 2014	Initial Planting
January 2015	Replanted Mowed Trees
June 2015	Vegetation Monitoring (Year 1)

1.4 Debit Ledger

Site name	Site TIP	HUC	River Basin	Division	County	Mitigation Type	Notes	As Built Quantity	Available	Debit
Bridge #6 over NW Fork Alligator River	B-4647	03010205	Albemarle-Chowan	1	Tyrrell					B-4647
						Riverine Wetland Restoration		0.52	0.03	0.49

Note: Debit ledger information up to date as of August 10th, 2015.

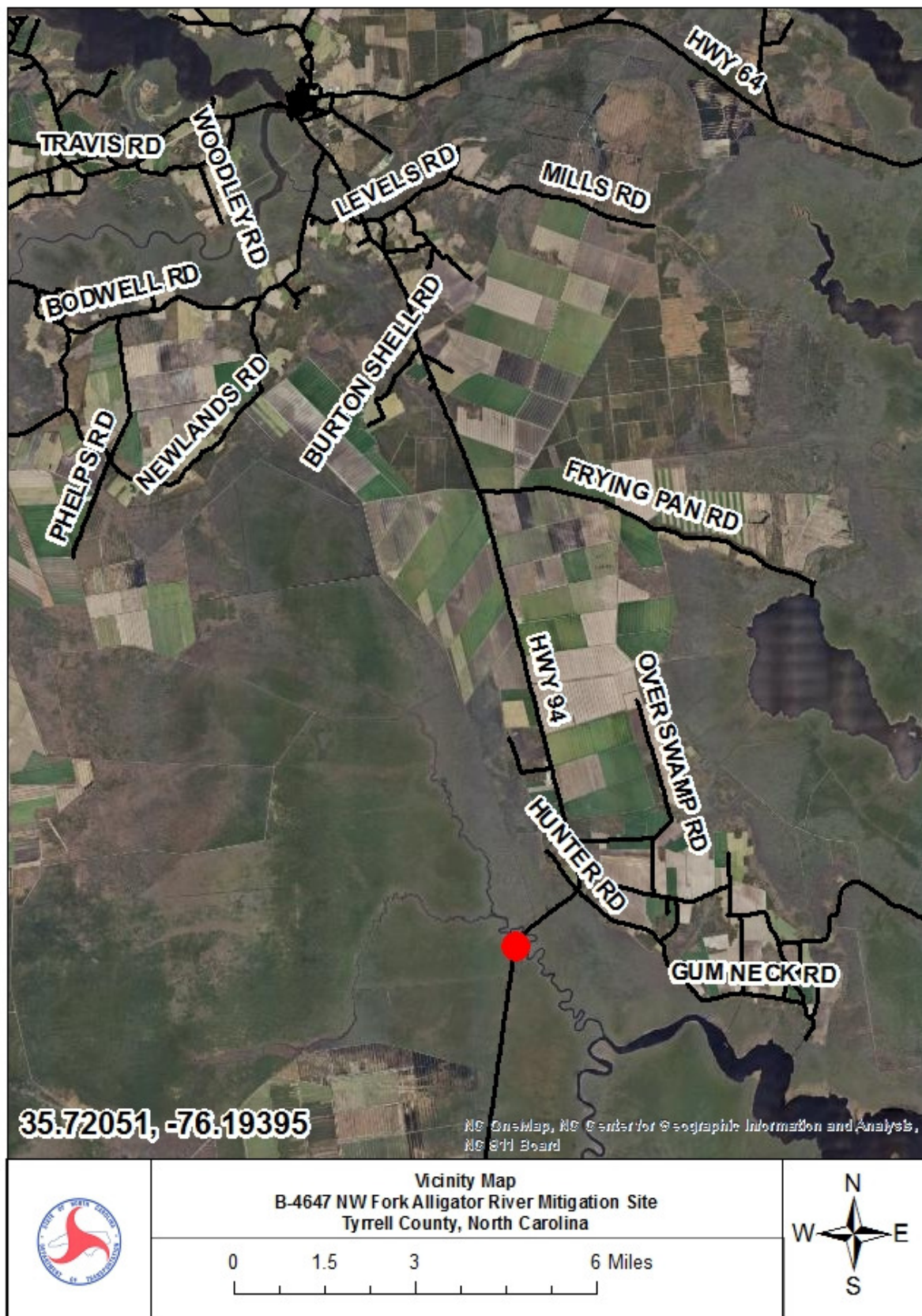


figure 1. Vicinity Map

2.0 VEGETATION: NORTHWEST FORK ALLIGATOR RIVER MITIGATION SITE (YEAR 1 MONITORING)

2.1 Success Criteria

Success Criteria states that NCDOT shall monitor the restoration site by visual observation and photo points for survival and aerial cover of vegetation. NCDOT shall monitor the site for a minimum of three years or until the site is deemed successful. Monitoring will be initiated upon completion of the site planting.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Taxodium distichum, Baldcypress

Nyssa biflora, Swamp Tupelo

Chamaecyparis thyoides, Atlantic White Cedar

Fraxinus pennsylvanica, Green Ash

2.3 Results of Vegetation Monitoring

The restoration area is re-attaining wetland jurisdictional status and the planted species are surviving. Planted species noted surviving included Baldcypress, Swamp Tupelo, Atlantic White Cedar, and Green Ash. Other species noted within the planted area included wax myrtle, *Juncus* sp., baccharis, smartweed, fennel, and various grasses.

The site has been signed to prevent further encroachments.

2.4 Conclusions

By visual observation, the Northwest Fork Alligator River Mitigation Site shows that the planted species are surviving and the restoration area is re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Northwest Fork Alligator River Mitigation Site in 2016.

APPENDIX A

SITE PHOTOS & SITE MAP

Northwest Fork Alligator River



Photo 1

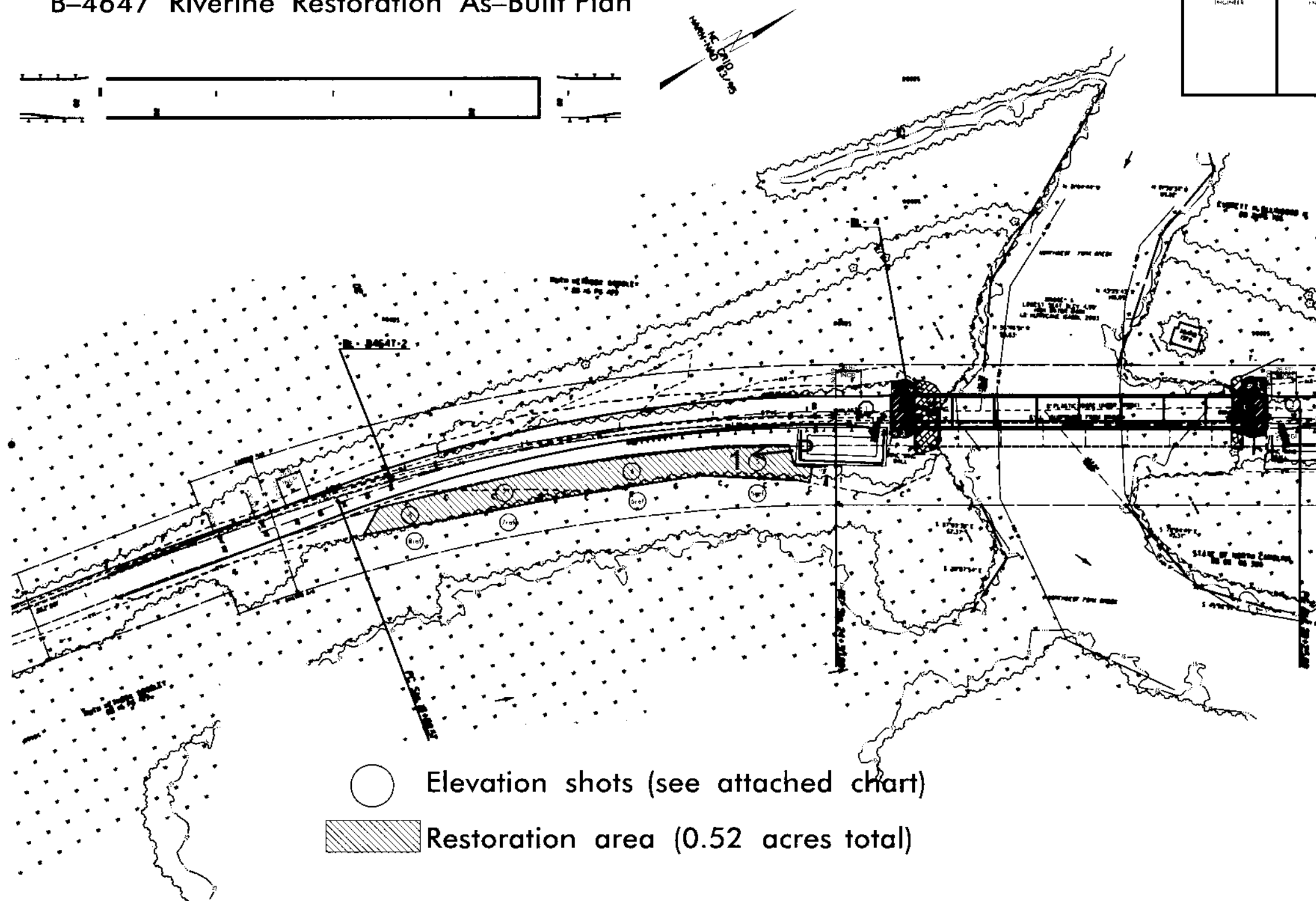


Photo 2

June 2015

B-4647 Riverine Restoration As-Built Plan

PROJECT REFERENCE NO.	SHEET NO.
1-34	2 of 3
ROADWAY DESIGN ENGINEER	HYDROLOGICS ENGINEER



- Elevation shots (see attached chart)
- ▨ Restoration area (0.52 acres total)

PROJECT REFERENCE NO.		SHEET NO.	
100		100	
RAW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

 Restoration area (0.52 acres total)